

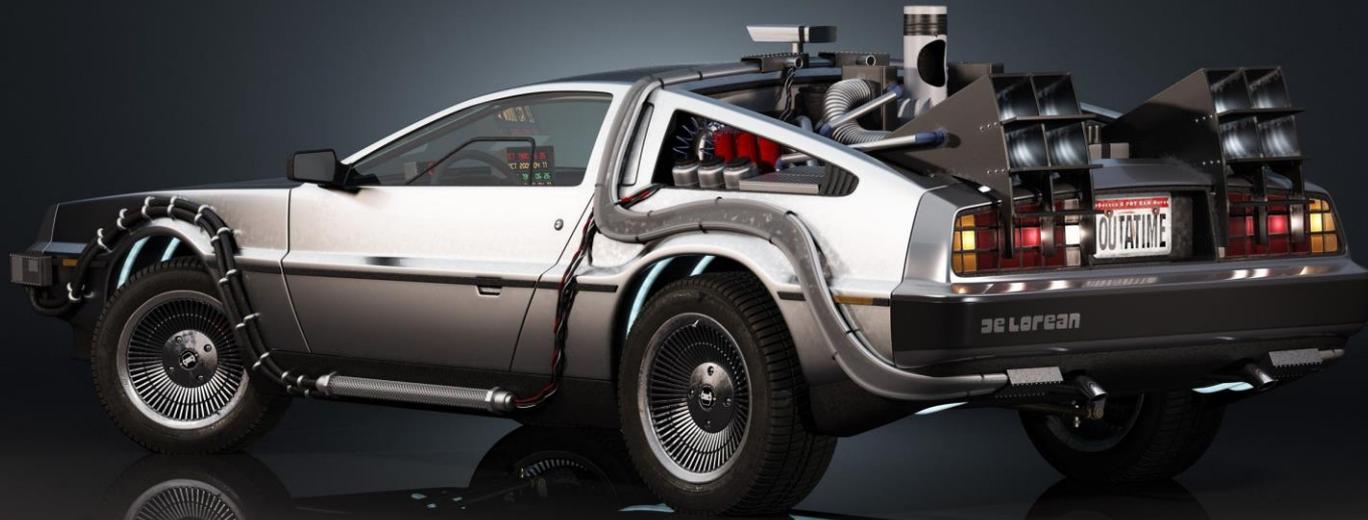
# The Tesla Model S

And what you would be getting  
yourself into if you owned one

# The Tesla Model S



# The Tesla Model S



# The Tesla Model S



# The Tesla Model S



# The Tesla Model S



# The Tesla Model S



# In a nutshell - Cost

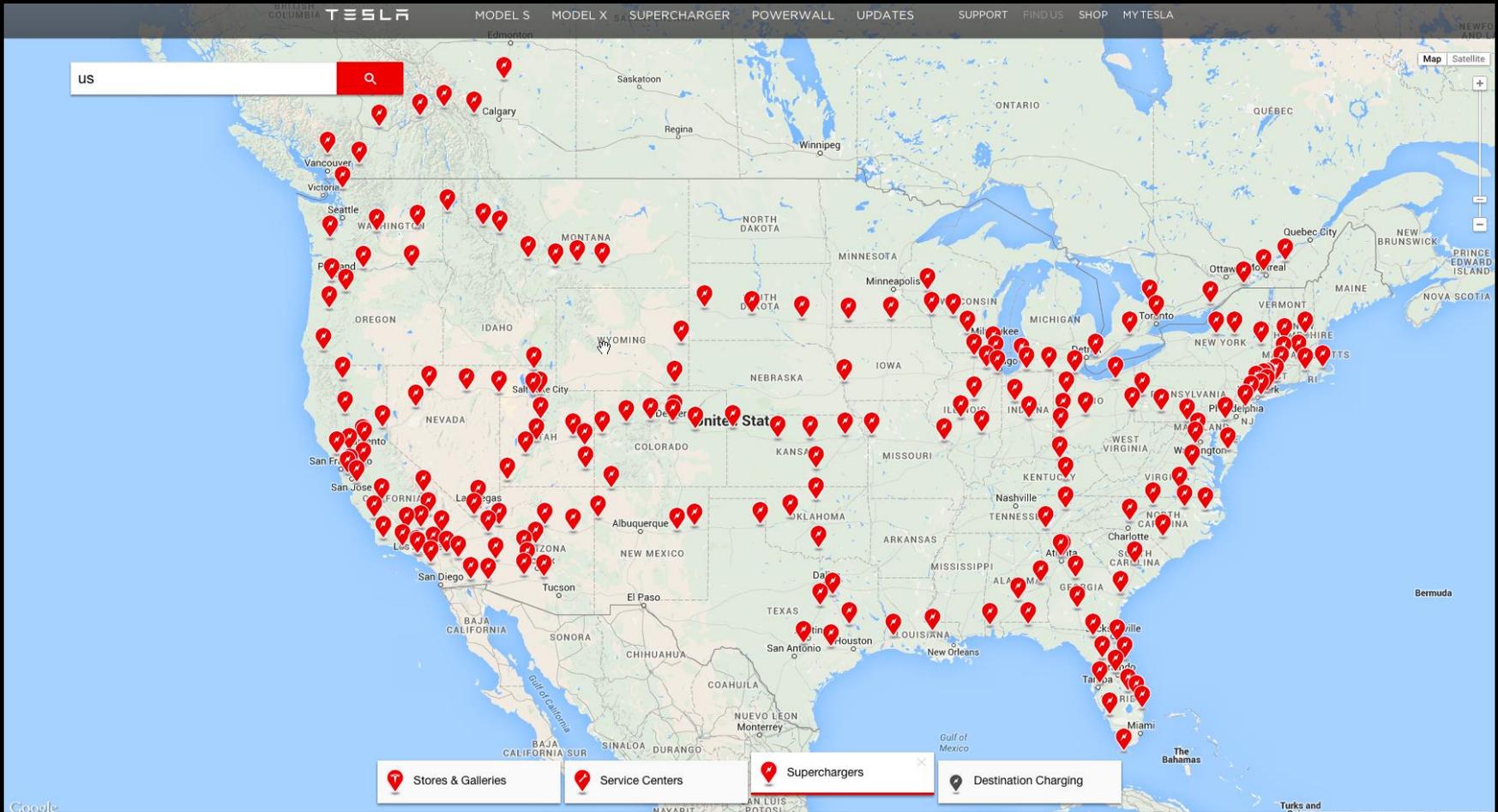
From \$75,000 up to \$125,000



# In a nutshell – Standard Equipment

- Supercharger network access
- Automatic keyless entry
- 8 year infinite mile battery and drive unit warranty
- Automatic emergency braking
- 17” touch screen & digital instrument cluster
- Maps and navigation with traffic updates
- Over the air updates to the vehicle

# Supercharger Network



# Supercharger Network

- Up to 120 kW of DC power directly to battery
- Typically situated near highway stops with facilities and/or shopping
- Typically within 100 to 200 miles of each other
- Adds 170 miles of range to a low battery in about 30 minutes
- Free to use for Tesla owners for the life of car

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# Automatic keyless entry & start

- Cool keyfob - looks like the body of the car
- Door handles can be set to automatically extend when a keyfob approaches
- No need to insert key or push button to start. Just put your foot on the brake pedal.
- When driver gets out and shuts door, the car turns off. Walk away auto lock if desired.

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# Touch screen and instrument cluster



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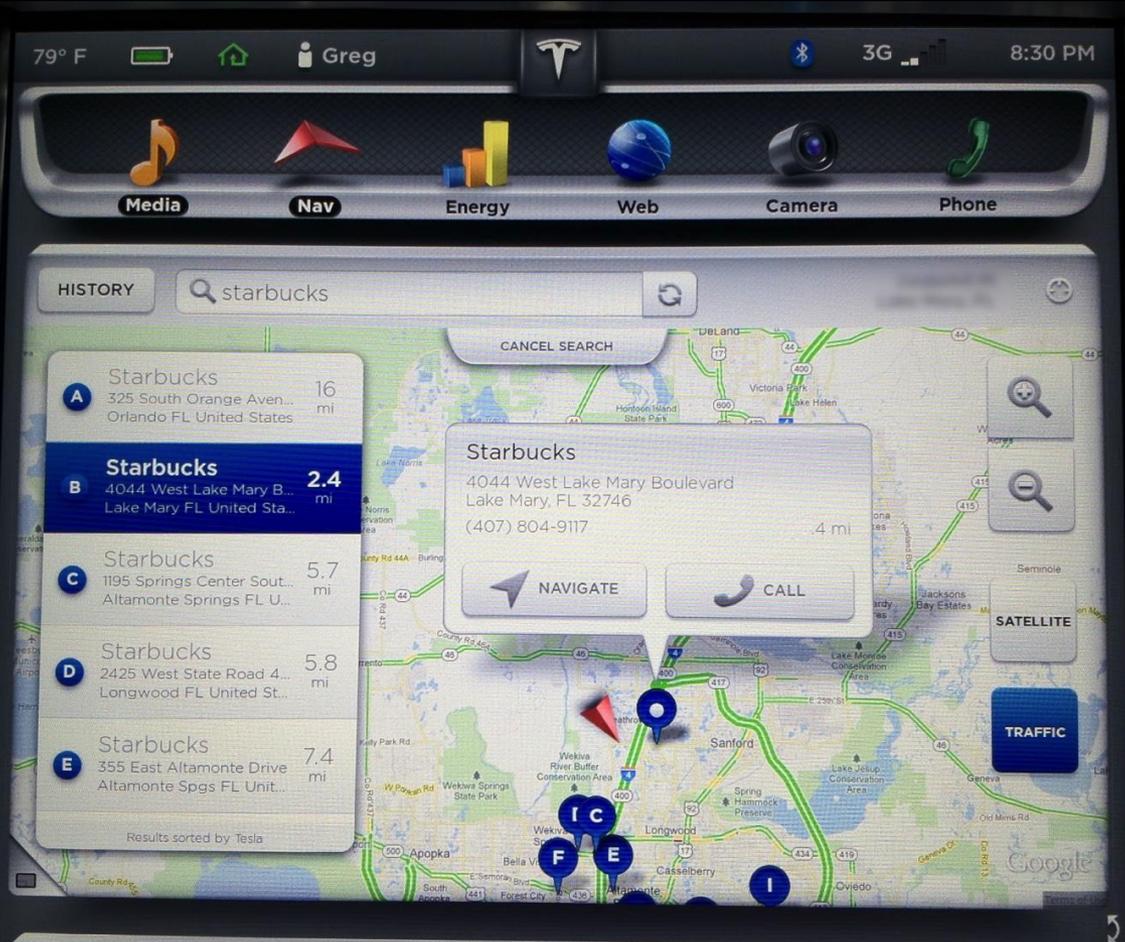
# Maps and navigation



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# Over the air updates

## New Features

- [Wi-Fi & Tethering](#)
- [Tow Mode](#)
- [Screen Cleaning Mode](#)
- [Display Energy-Saving Mode](#)
- [Owner's Manual](#)

## Enhancements

- [Maps](#)
- [Display Brightness](#)
- [Radio Station Presets](#)
- [Range Display](#)
- [Addition to Driver Profiles](#)
- [Creep Setting](#)

## NEW FEATURES

### Wi-Fi & Tethering

Wi-Fi is available as an alternative data connection method with this release. You can take advantage of a Wi-Fi network at home or work (e.g., useful for Tesla mobile app access or downloading software updates).



# In a nutshell – Standard Equipment continued...

- Front trunk – the “frunk”
- Folding power mirrors
- Parking sensors
- Mobile app remote control
- High definition backup camera
- Rain sensing wipers
- GPS enabled Homelink (garage door opener – I use it to control our driveway floodlights)
- Bluetooth hands-free + media streaming
- Voice activated controls
- Internet music streaming
- 12-way power adjustable heated seats
- Blind spot warning
- Lane departure warning
- Speed limit display

# In a nutshell - Options

- BEV (not hybrid), 70 or 85 kWh battery
- All models are all-wheel drive now
- Panoramic glass top
- Air suspension with GPS memory adjustments
- Seats 7 with the rear-facing children seats
- Seats 4 with executive rear seats
- Autopilot convenience features

# Tesla Model S Battery



# Tesla Model S Battery



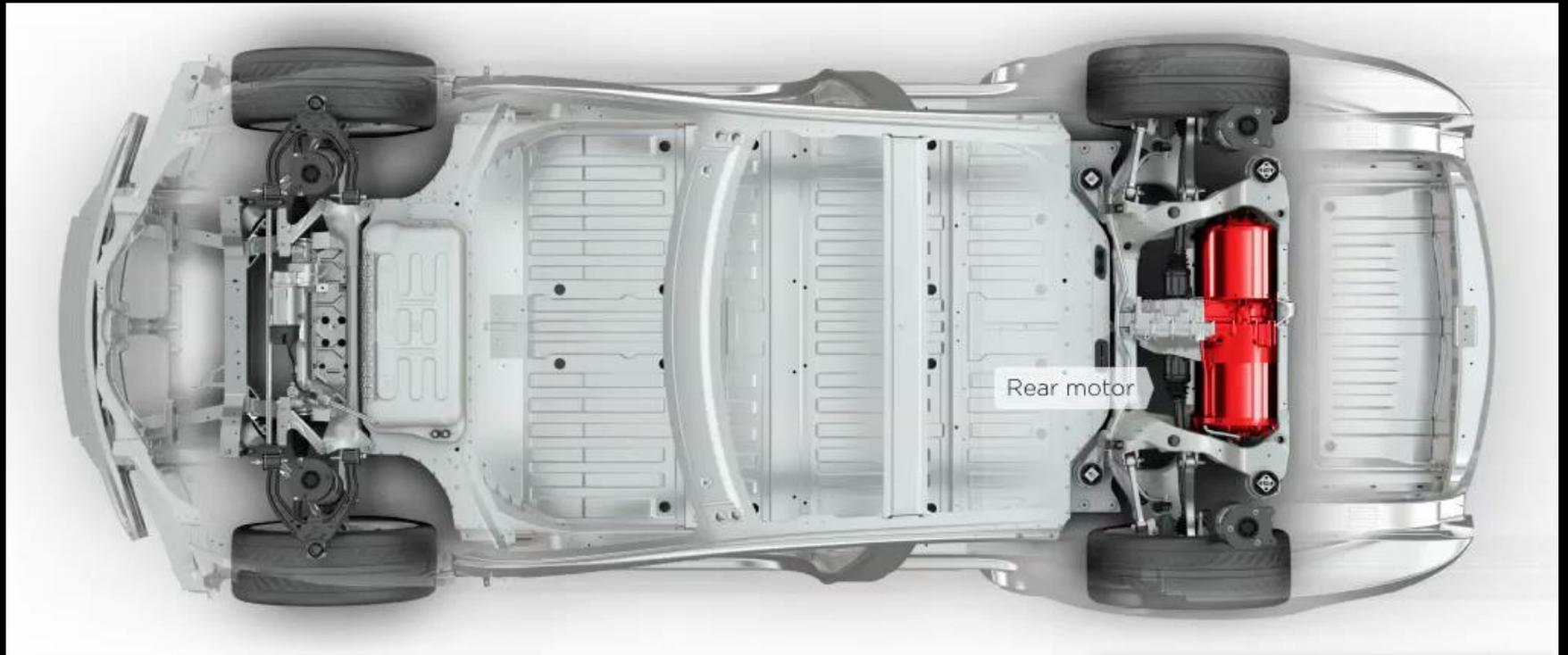
# Tesla Model S 85 kWh Battery

- 7104 individual Panasonic NCA 18650 Lithium Ion cells in the battery pack
- 16 modules in series
- Each module has 6 “bricks” in series
- Each brick has 74 18650 cells in parallel
- 402 volts
- Battery pack can easily be swapped out, either for replacement or as a faster alternative to charging

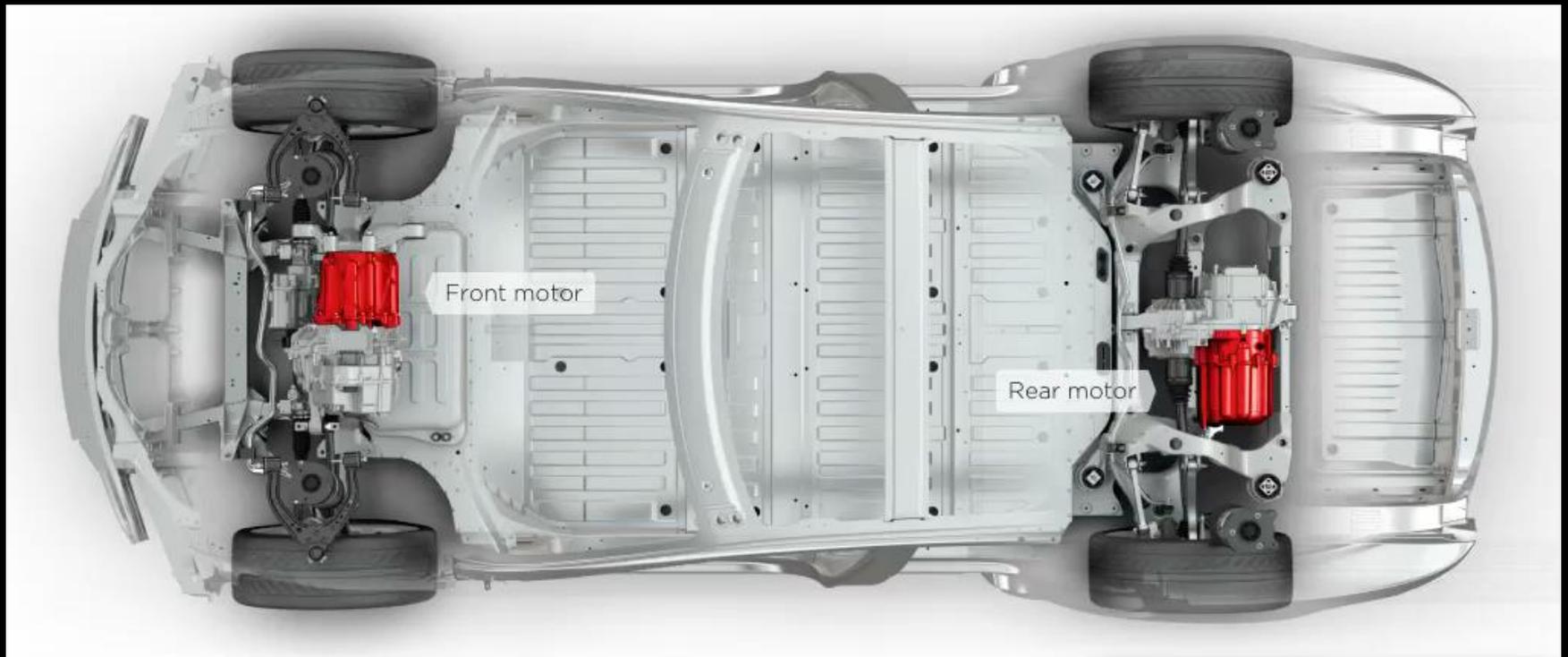
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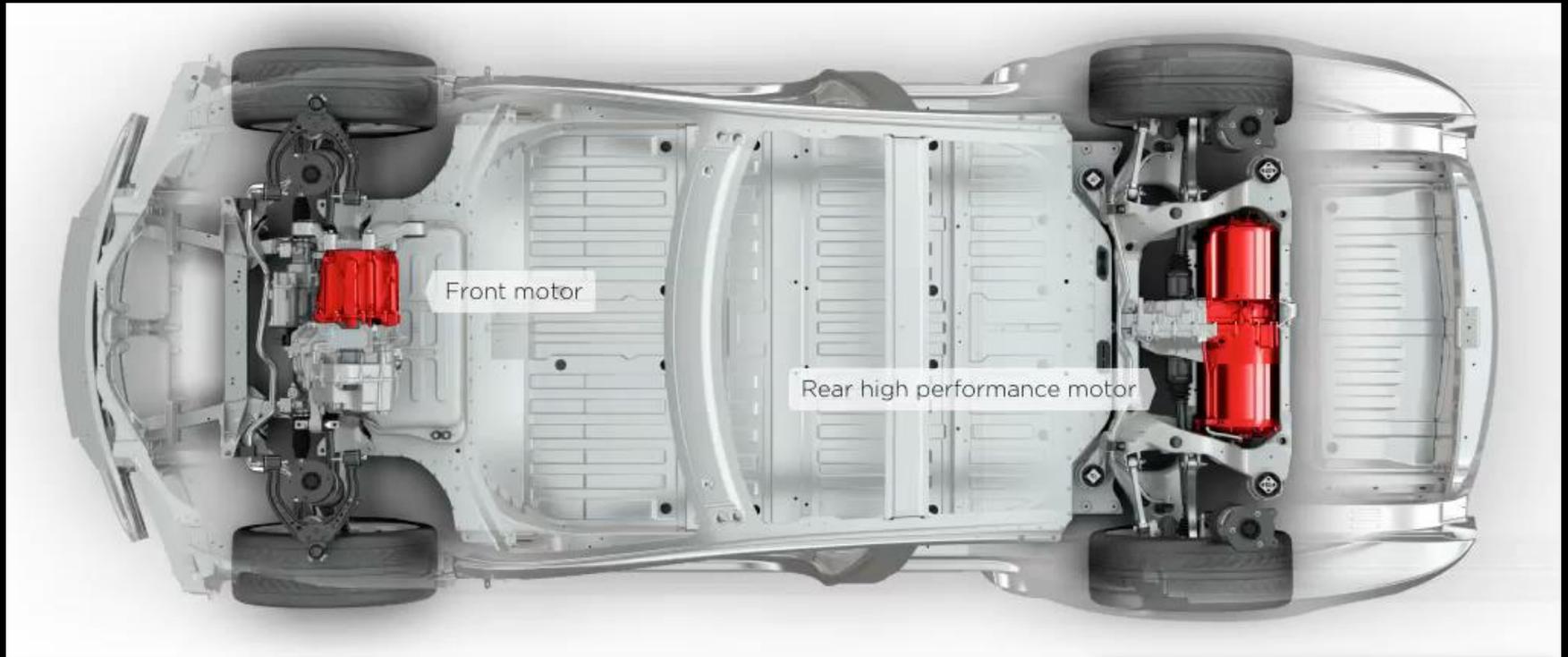
# All-wheel drive motors



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# Rear-facing children seats



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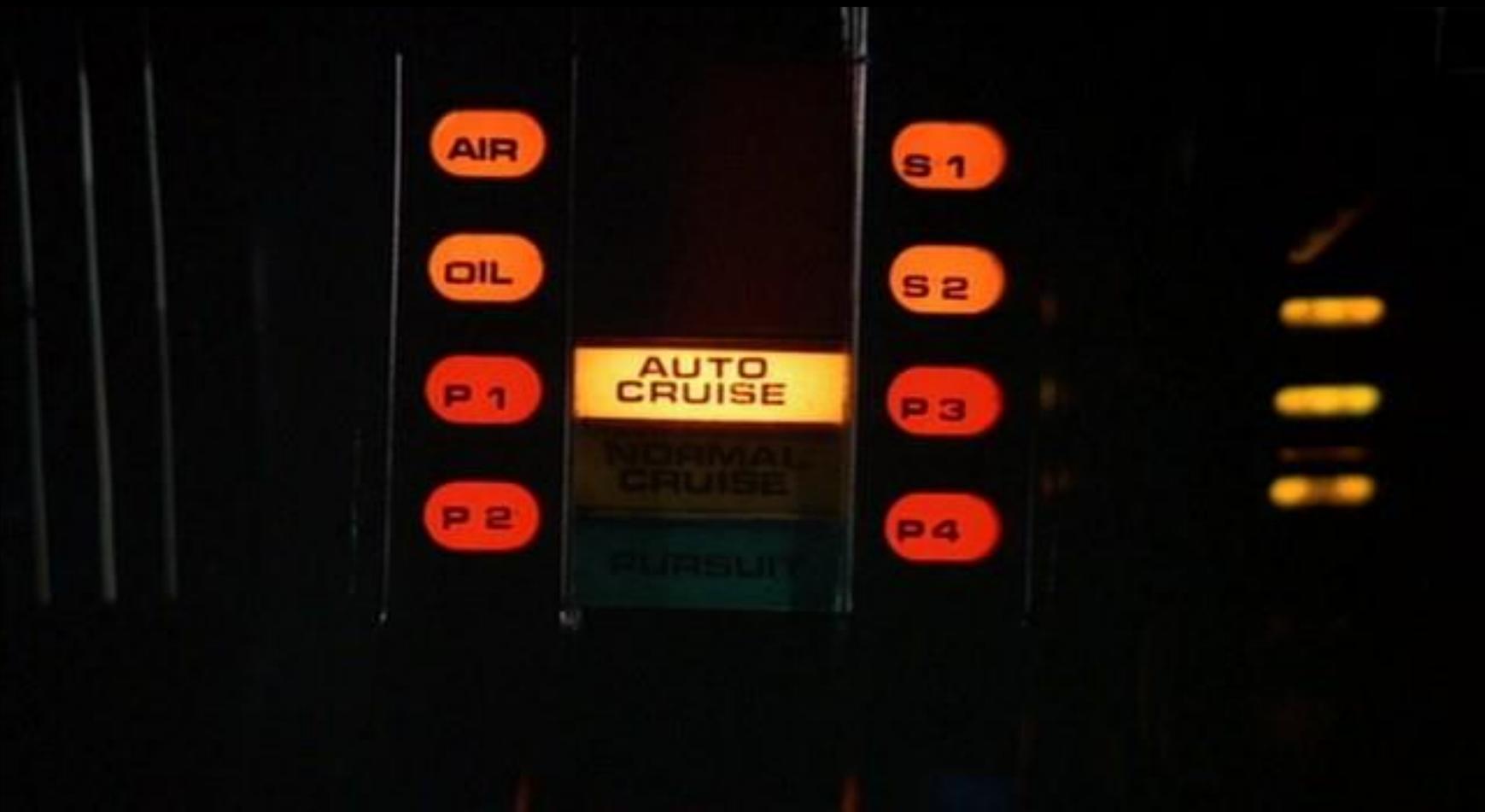
# Executive seats



# In a nutshell - Options

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- Autopilot convenience features

# Autopilot convenience features



# Autopilot convenience features

## Autopilot

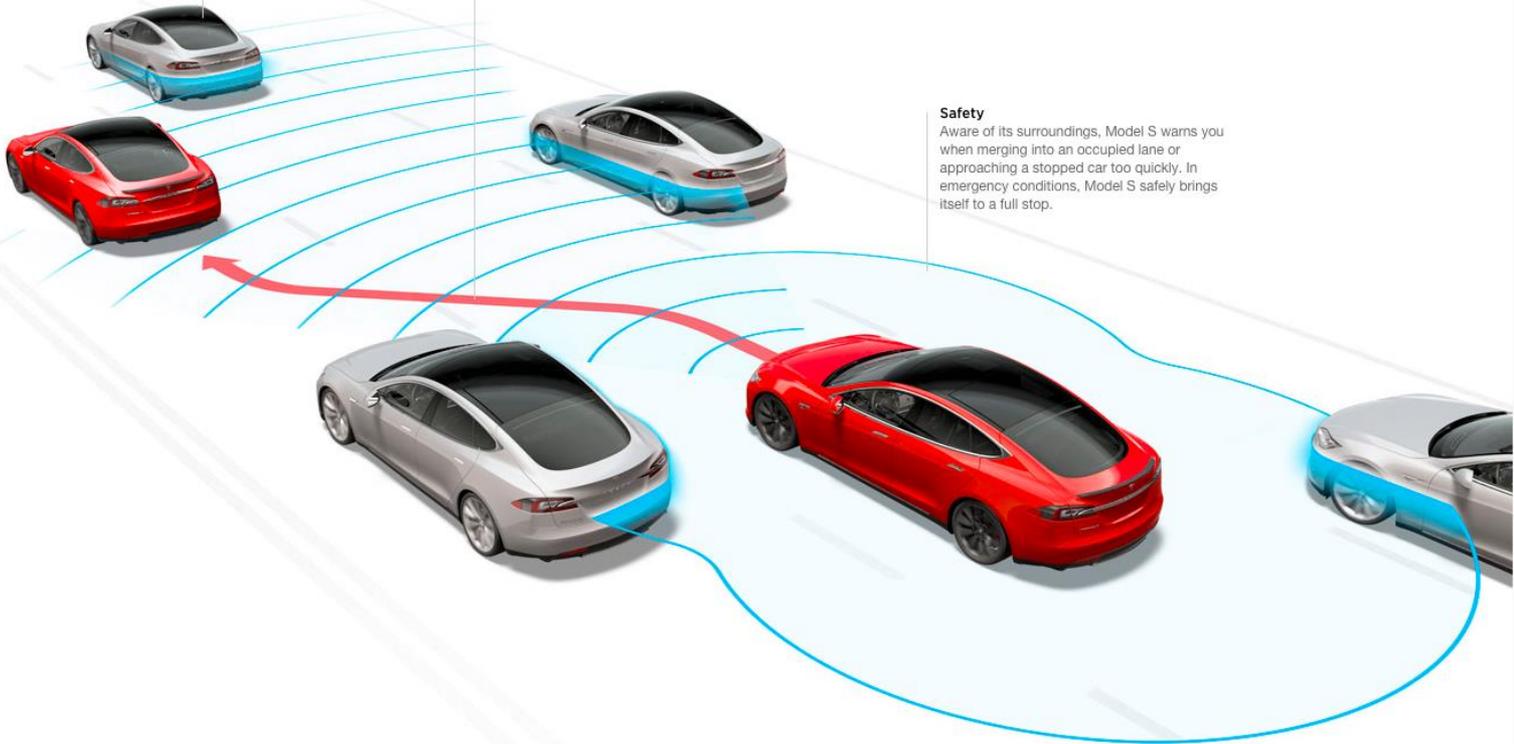
With Autopilot activated, Model S automatically follows the road, steering around curves and varying its speed to match the flow of traffic.

## Lane Changing

Automatically change lanes by tapping the turn signal.

## Safety

Aware of its surroundings, Model S warns you when merging into an occupied lane or approaching a stopped car too quickly. In emergency conditions, Model S safely brings itself to a full stop.



# Autopilot convenience features

- Adaptive cruise control – full stop and automatic resume (great for highway rush hour)
- OTA update this summer will enable
  - Automated lane changing
  - Highway automated steering
  - Automated parking, both parallel and garage
  - Private property automated meet at the curb

# In a nutshell - Charging



# In a nutshell - Charging



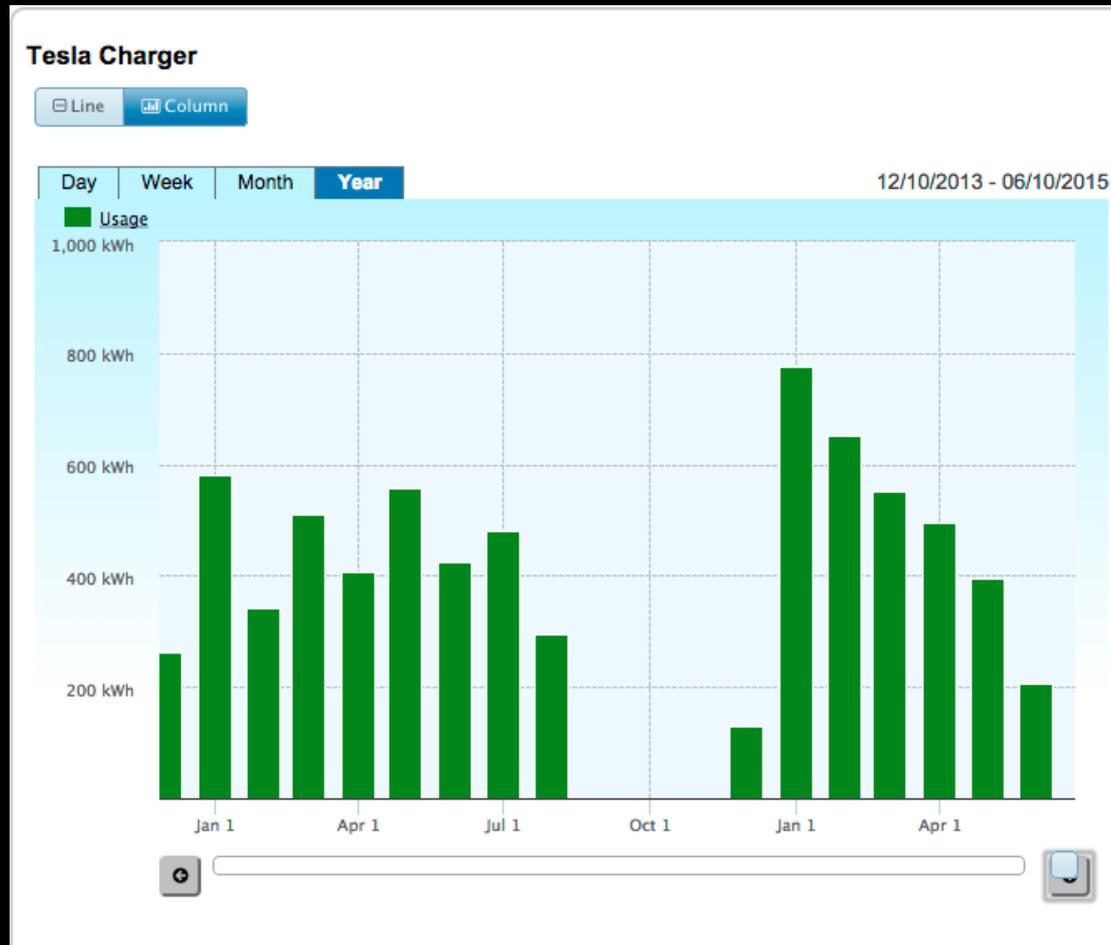
# In a nutshell - Charging



# In a nutshell - Charging

- Onboard 20kW charger
- Charging cable for 110 or 240 volt charging at 15, 20, 30, or 50 A
- 100 A high power wall charger can be installed at home or business
- Small adapter for using J1772 EV chargers
- Charging times vary based on how low the battery is, and the voltage and amperage used to charge.
- 120V 15A – 3 miles per hour of charge
- 240V 50A – 30 miles per hour of charge
- 240V 100A HPWC – 60 miles per hour of charge

# Cost of charging



# Cost of charging

- I have Liberty Utilities with a Time of Use plan.
- Total kWh costs are:
  - \$0.27474/kWh of Peak use (9AM – 9PM M-F)
  - \$0.18639/kWh of Off Peak use (nights weekends holidays)
- Some typical monthly costs with our utilities:
  - \$20/month each for our: dryer, office heat pump, HVAC heater
  - \$30/month for my work servers and network
  - \$50 to \$150/month for the Tesla charger

# In a nutshell - Service

- Frequent tire rotation and balancing (6k miles)
- Suggested \$600 annual checkup, but warranty is not affected if not performed.
- Service team will drop off a loaner Model S and pick your car up to bring it in for service.
- Tesla Motors is committed to an “at cost” model for service instead of having it be a profit center.

# In a nutshell - Speed

## 70D

All-Wheel Drive

70 kWh battery with all-wheel drive

**240** miles range (EPA)

**5.2** seconds 0-60 mph

**329** hp

**140** mph top speed

## 85

Rear Wheel Drive

85 kWh battery with rear wheel drive

**265** miles range (EPA)

**5.4** seconds 0-60 mph

**362** hp

**140** mph top speed

## 85D

All-Wheel Drive

85 kWh battery with all-wheel drive

**270** miles range (EPA)

**4.4** seconds 0-60 mph

**422** hp

**155** mph top speed

## P85D

All-Wheel Drive

85 kWh battery with high performance all-wheel drive

**253** miles range (EPA)

**3.1** seconds 0-60 mph

**221** hp front, **470** hp rear motor power

**155** mph top speed

Which leads us to...



# In a nutshell - Safety



# In a nutshell - Safety

- NHTSA 5 star rating
- Best safety scores ever in a sedan (it broke the NHTSA rollover crush test at 4Gs of pressure)
- Titanium underbody shield with deflector plates (to protect battery)
- Low center of gravity
- Heavy sedan means more mass to offset impact
- Reinforced pillars
- Eight airbags
- Small motors means more crumple zone
- The car is a tank.
- Tesla is notified by the car if there is an accident and will call the owner.

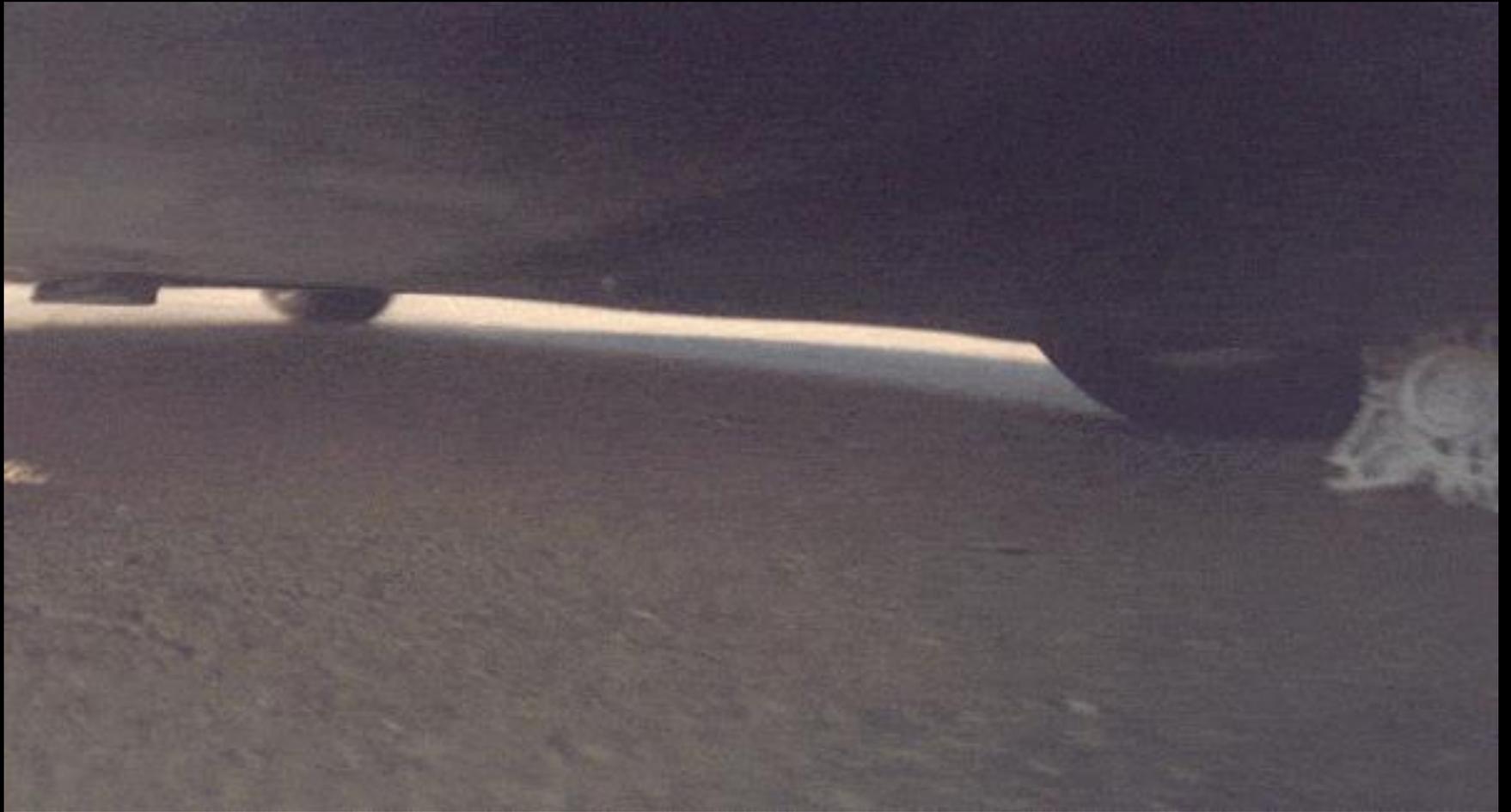
# In a nutshell - Safety



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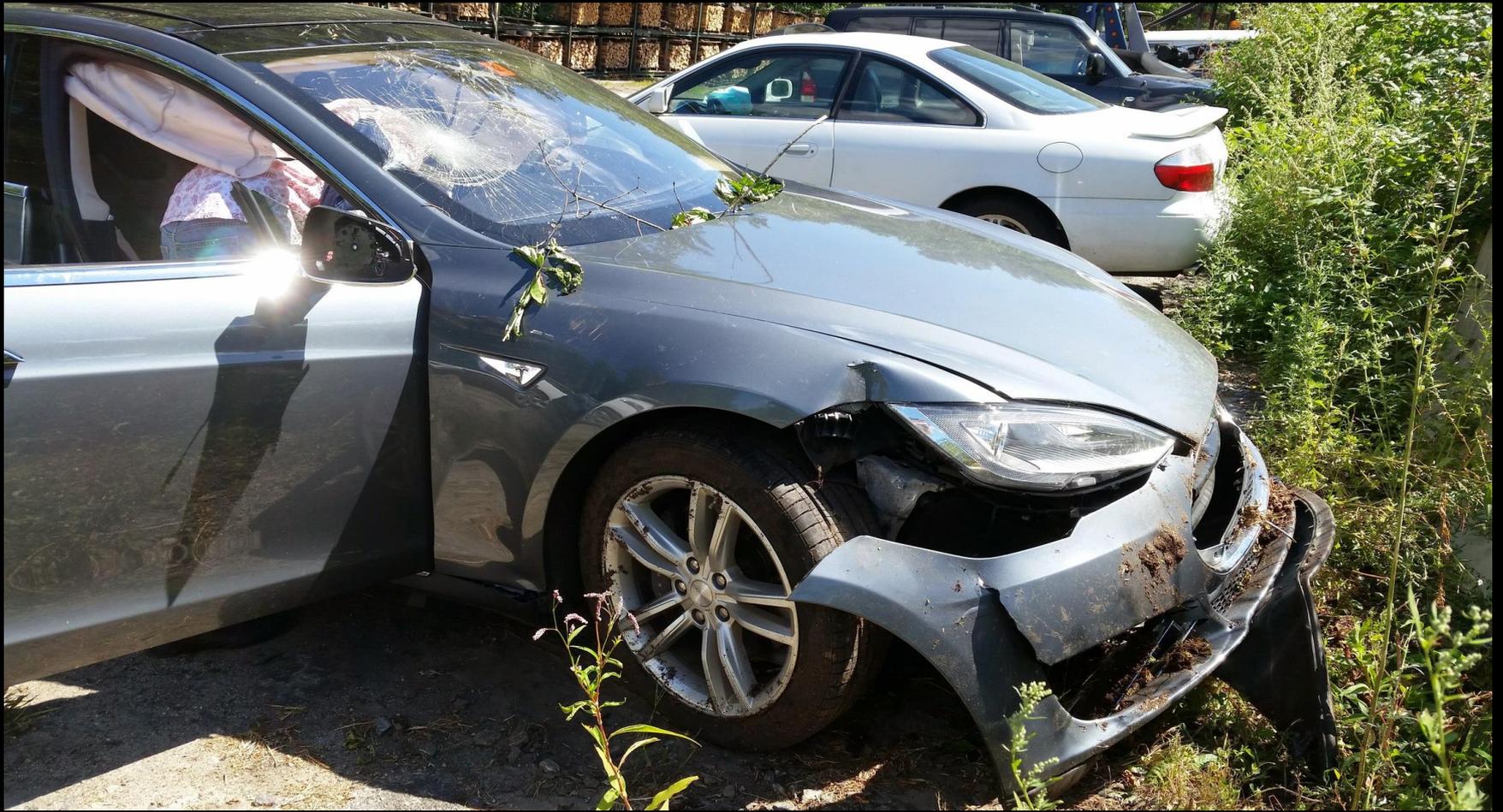
# In a nutshell - Safety



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# In a nutshell - Safety



# In a nutshell - Community



# In a nutshell - Community



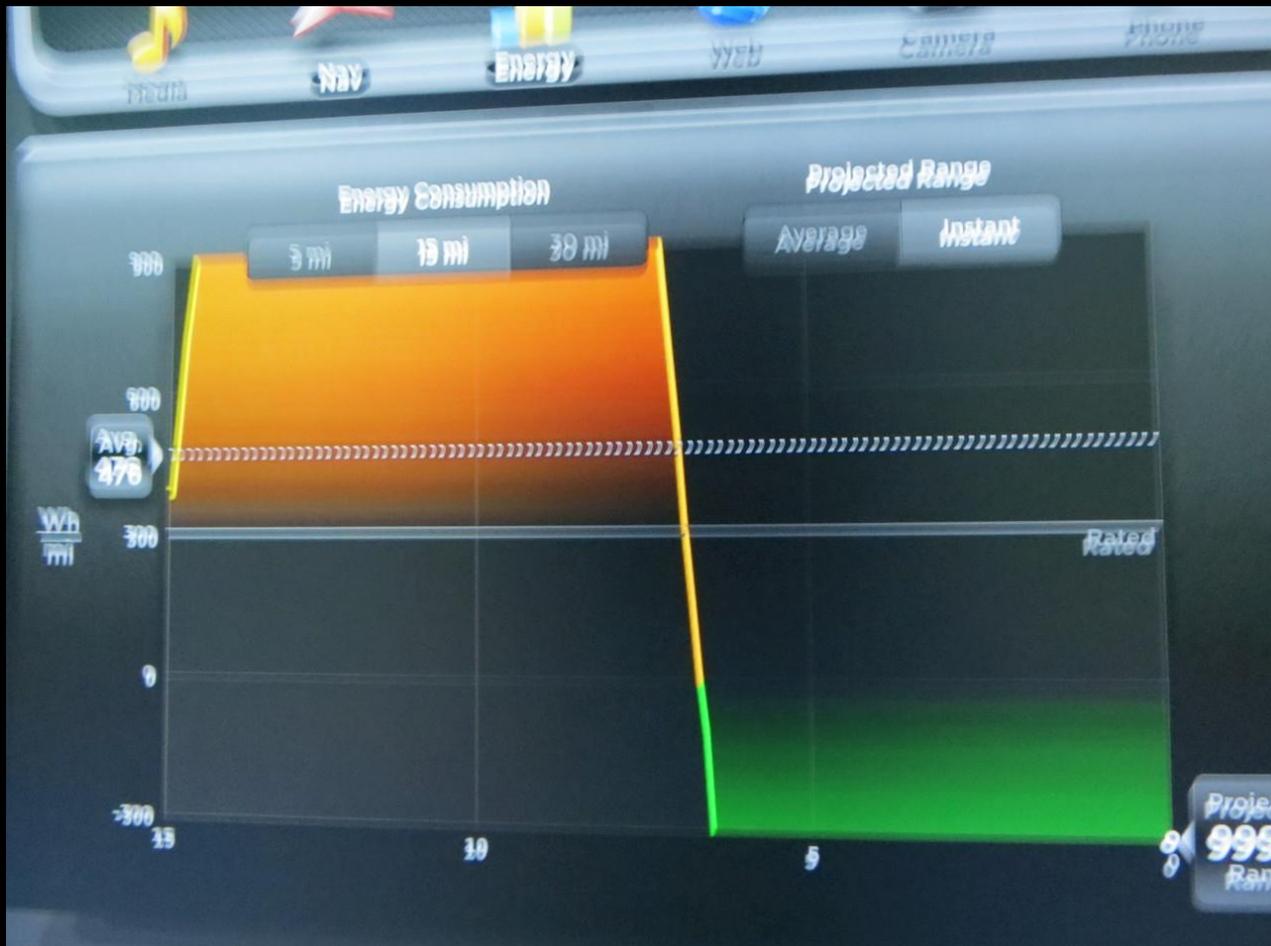
# In a nutshell - Community



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# In a nutshell - Community



# In a nutshell - Community



# In summary

- Owning a Model S is a very different experience in almost every aspect.
- I couldn't dream of owning anything else.
- Donate to the MVD-SEIA for a chance to win one: [tinyurl.com/teslasweepstakes](http://tinyurl.com/teslasweepstakes)
- Questions?